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Spectroscopic Observations of the distant Companion of Capella

In 1913 Furuhjelm[1] announced that a faint star 12′ distant from *Capella* has a proper motion of 0″.42 in P. A. 171°, which is nearly the same in amount and direction as that of *Capella* itself. The star is following and south of the bright star and is not one of the companions given in Burnham's *General Catalogue*. A trigonometric parallax of +0″.076 was found for it at the Allegheny Observatory, and later at the Yerkes Observatory a value of +0″.075 was determined. The agreement of the parallax with that of *Capella* made it fairly certain that the star had some physical relation to *Capella*.

The photographic magnitude given by Furuhjelm is 10.6. From a rough comparison with nearby BD stars we estimate its visual magnitude to be about 9.8.

Two photographs of the spectrum have been obtained under poor conditions of seeing with exposures of three and two and one half hours, respectively, using the Cassegrain spectrograph and 7-inch camera of the Hooker telescope. The plates are underexposed in the region of wave-length, shorter than Hγ but serve to give a good idea of the character of the spectrum and a fair determination of the spectroscopic parallax and radial velocity. The spectrum is classed as Ma with the usual dwarf characteristics. The absolute magnitude determined by the use of the line λ4454 is 9.2. The spectroscopic parallax would then be +0″.076 if we use the estimate of 9.8 as the value of the apparent visual magnitude.

The radial velocity of the star has been measured and found to be +30 ± km per sec. Altho the dispersion used is low, the radial velocity agrees well with that of *Capella* which is +30.2 km per sec as determined at the Lick Observatory.

Thus the chain of evidence connecting this distant faint star with the giant *Capella* is complete as far as can be judged from position and motion. Altho their distance cannot be less than 10,000 astronomical units, their motions in space agree within the errors of the measurements.

W. S. Adams.
A. H. Joy.

Ten Stars of Class B Having the Hα Line Bright

Second List

Hα has been observed as an emission line in the spectra of the stars in the following list, photographed with the 10-inch Cooke

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[1] *A. N.* **4715**, 182.